

**FIG. 1** Center X

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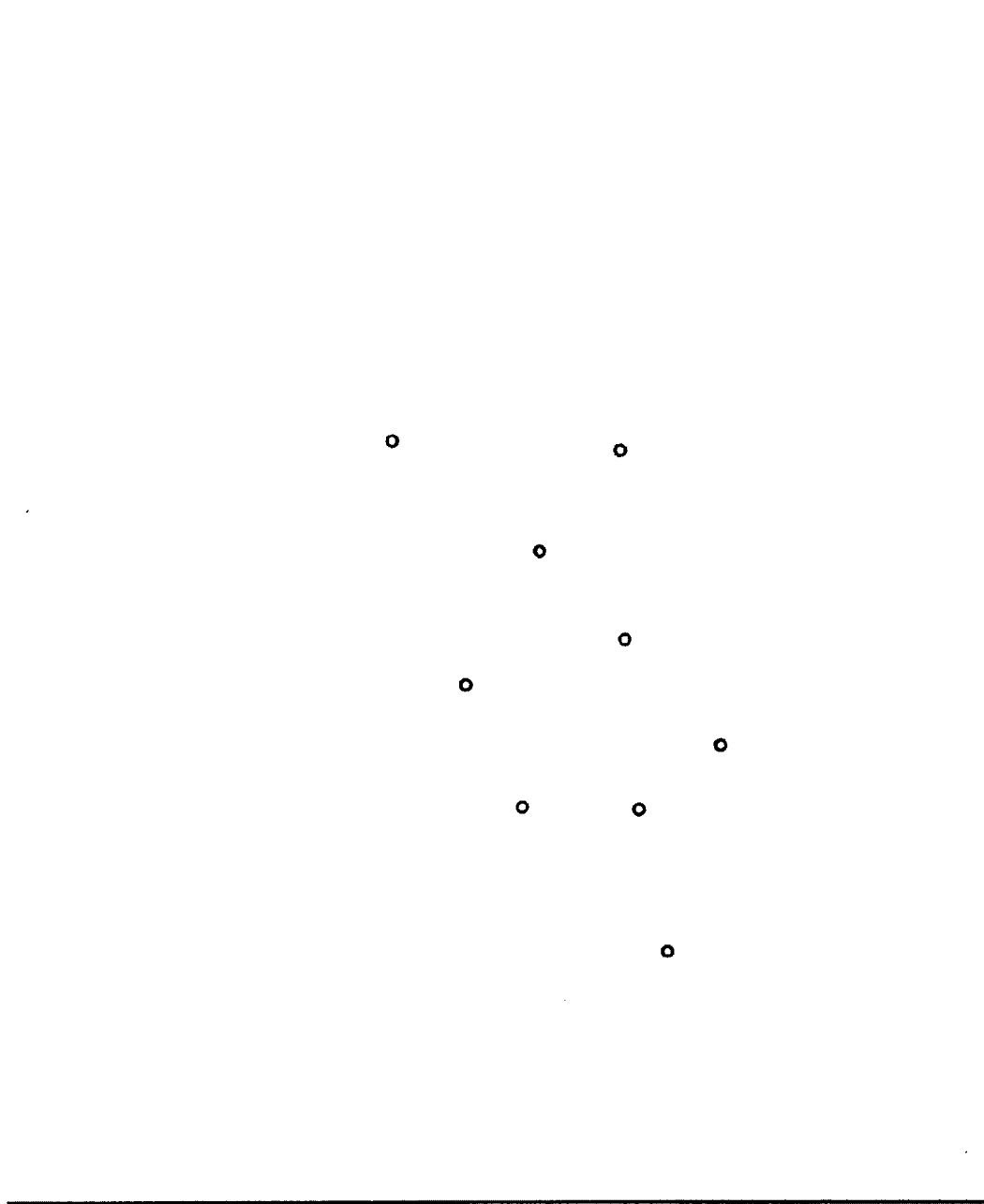


FIG. 2

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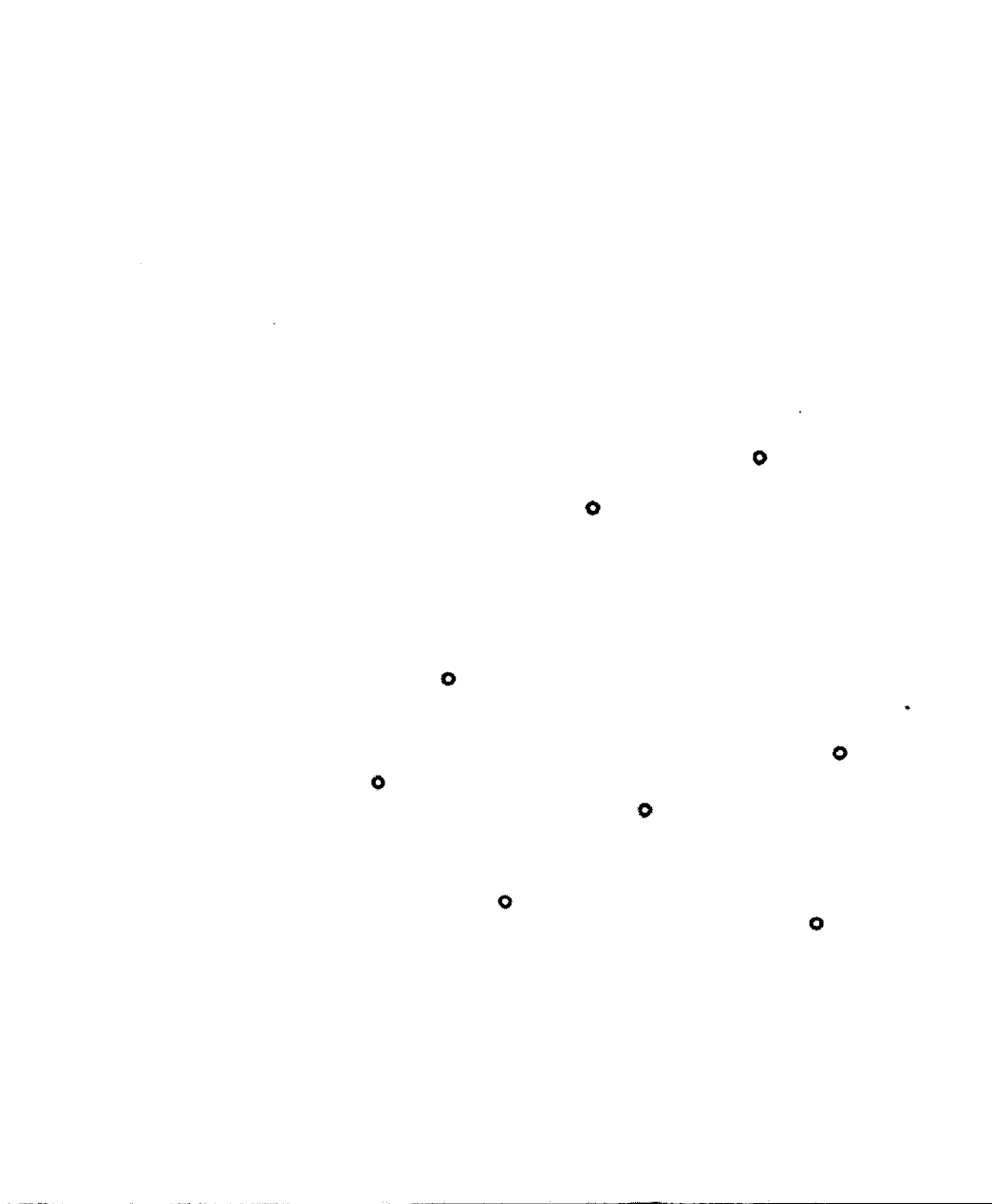


FIG. 3

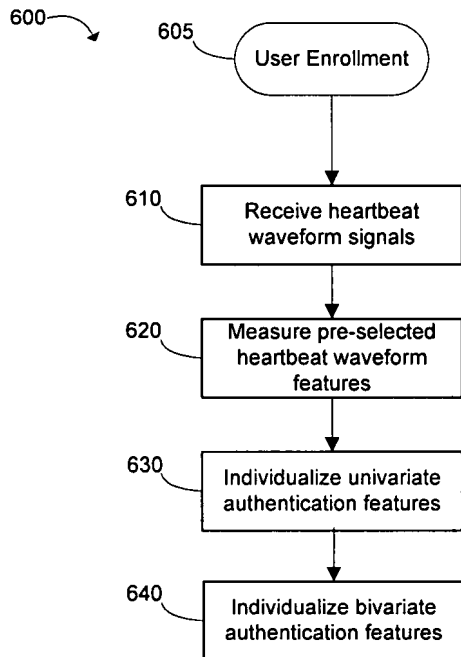
**TABLE A**

| <b>Features of Heartbeat Wave Form</b>  |
|---|
| <b>Rate of change (slope) at all locations of the wave form.<br/>(There are <math>n-1</math> of these per wave form. <math>n</math>= number of data points)</b> |
| <b>Shape of Peak associated with the strongest wave form feature</b>  |
| <b>Shape of Peak associated with the dicrotic notch</b>   |
| <b>Shape of Inverted Peak associated with dicrotic notch</b>  |
| <b>Approach angle of Peak associated with the strongest wave form feature</b>   |
| <b>Approach angle of Peak associated with the dicrotic notch</b>  |
| <b>Approach angle of Inverted Peak associated with the strongest wave form feature</b>  |
| <b>Approach angle of Inverted Peak associated with the dicrotic notch</b>   |
| <b>Location of Peak associated with the strongest wave form feature</b>   |
| <b>Relative location of Peak associated with the strongest wave form feature</b>  |
| <b>Location of Peak associated with the dicrotic notch</b>  |
| <b>Relative location of Peak associated with the dicrotic notch</b>   |
| <b>Location of Inverted Peak associated with the dicrotic notch</b>   |
| <b>Relative location of Inverted Peak associated with the dicrotic notch</b>  |
| <b>Magnitude of Peak associated with the strongest wave form feature</b>  |
| <b>Magnitude of Peak associated with dicrotic notch</b>   |
| <b>Magnitude of Inverted Peak associated with dicrotic notch</b>  |
| <b>Maximum rates of change along any defined segment of the wave form</b>   |
| <b>Minimum rates of change along any defined segment of the wave form</b>   |
| <b>Relative location associated with maximum rates of change along any defined segments of the wave form</b>  |
| <b>Relative location associated with minimum rates of change along any defined segments of the wave form</b>  |
| <b>Magnitude associated with maximum rates of change along a defined segment of the wave form</b>   |
| <b>Magnitude associated with minimum rates of change along any defined segment of the wave form</b>   |
| <b>Frequency of the wave form as determined by any data point</b>   |

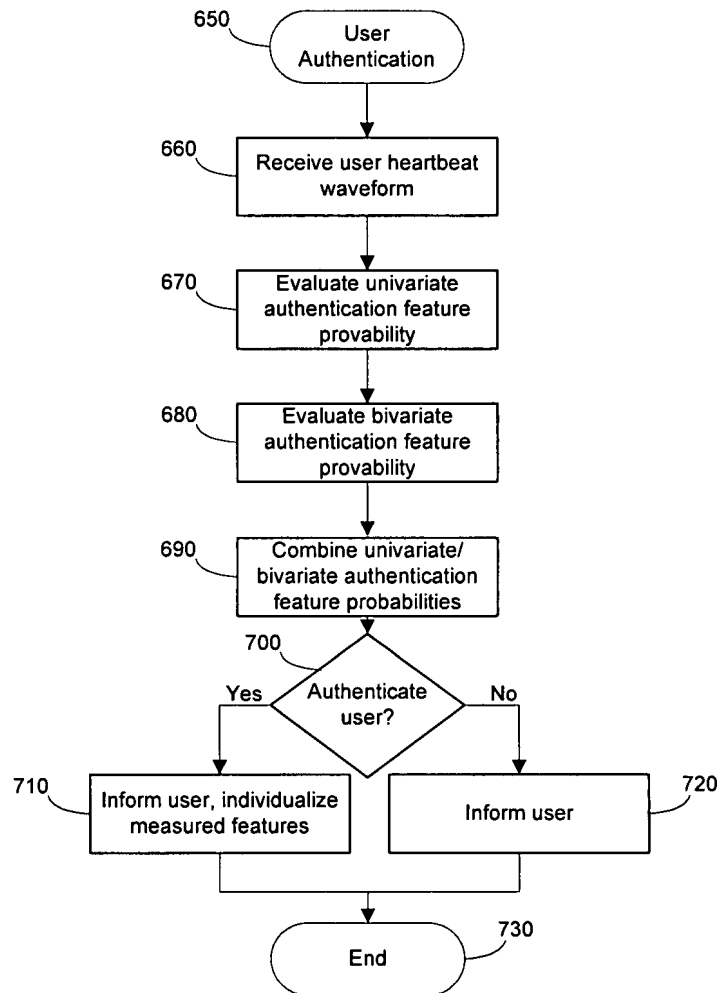
**FIG. 4**

| <b>Features of Heartbeat Wave Form</b>  |
|---|
| <b>Frequency of wave form as determined by a combination of data points</b>   |
| <b>Trend measures associated with a feature</b>                               |
| <b>Trend measures associated with any segment and wave form</b>               |
| <b>Cycles associated with any feature</b>                                     |
| <b>Cycles associated with any segment of the wave form</b>                    |
| <b>Series associated with a feature</b>                                       |
| <b>Series associated with a segment of the wave form</b>                      |
| <b>Variability estimates associated with features</b>                         |
| <b>Variability estimates associated with subsegments</b>                      |
| <b>Variability estimates associated with defined measures</b>                 |
| <b>Linear combination of features, segments, and data on a wave form</b>      |
| <b>Non-linear combinations of features, segments, and data on a wave form</b> |

**FIG. 5**



**Fig. 6a**



**Fig. 6b**